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FEDERAL - STATE - PRIVATE
COOPERATIVE
SNOW SURVEY and WATER SUPPLY FORECASTS
for
COLORADO and NEW MEXICO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE
and
COLORADO AGRICULTURAL EXPERIMENT STATION,
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service and other Federal, State, and private organizations.

AS OF
MAR. 1, 1961

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
COLORADO AND STATE OF UTAH	MONTHLY (JAN.-MAY)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA	MONTHLY (JAN.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE OF MONTANA	MONTHLY (FEB.-MAY)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1, APR. 1, MAY 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (FEB.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
NEVADA	MONTHLY (FEB.-APR.)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-MAY)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-MAY)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB. JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

Copies of these various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. Fifth Ave., Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS AND FORESTS, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, SACRAMENTO, CALIF.

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

COLORADO RIVER, PLATTE RIVER
ARKANSAS RIVER AND RIO GRANDE
DRAINAGE BASINS

Issued

March 1, 1961

Report Prepared By

Jack N. Washichek, Snow Survey Supervisor
and

Don W. McAndrew, Assistant Snow Survey Supervisor
Fort Collins, Colorado

United States Department of Agriculture
Soil Conservation Service
and

Colorado Agricultural Experiment Station
Fort Collins, Colorado
and

State Engineer of Colorado
Denver, Colorado
and

State Engineer of New Mexico
Santa Fe, New Mexico

Issued By

Kenneth W. Chalmers
State Conservationist
Soil Conservation Service

J. E. Whitten
State Engineer
State of Colorado

Sherman S. Wheeler, Director
Colorado Agricultural
Experiment Station

S. E. Reynolds
State Engineer
State of New Mexico

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

AS OF

MARCH 1, 1961

SNOW COVER

SNOW PACK OVER THE TWO STATE AREA IS STILL MUCH BELOW NORMAL. THE SAME PATTERN EXISTS IN THE TWO STATE AREA, WITH LOW SNOWS NOT TOO BAD, BUT HIGH ELEVATION SNOWS MUCH BELOW NORMAL. IF THIS PATTERN CONTINUES FOR THE NEXT TWO MONTHS WE CAN EXPECT AN EARLY RUNOFF. THE RUNOFF PERIOD WILL PROBABLY BE SHORT.

THE BEST SNOW COVER AT THIS TIME EXISTS ON THE RIO GRANDE BASIN IN NEW MEXICO WHILE ITS SISTER AREA, THE UPPER RIO GRANDE IN COLORADO, IS ONE OF THE POOREST AREAS. THE REST OF COLORADO RANGES FROM 55% TO 70% OF NORMAL SNOW COVER.

SOIL MOISTURE

SOIL MOISTURE AS OF THE FALL READING WAS POOR IN MOST OF THE TWO STATE AREA. HEADWATERS OF THE RIO GRANDE IN COLORADO WAS A LITTLE BIT BETTER THAN NORMAL. DURING THE MONTH OF FEBRUARY, SOME AREAS EXPERIENCED UNSEASONABLY HIGH TEMPERATURES WHICH MAY HAVE MELTED THE LOW ELEVATION SNOWS. THIS COULD HELP THE SITUATION TO SOME EXTENT. THE VALLEYS HAVE BEEN REPORTING FAIR TO POOR CONDITIONS. ONE GOOD GENERAL STORM COULD CHANGE THIS PICTURE.

RESERVOIR STORAGE

STORAGE GENERALLY IS SIMILAR TO LAST YEAR AT THIS TIME. CARRYOVER STORAGE ON THE BIG THOMPSON PROJECT IS SLIGHTLY BETTER THAN LAST YEAR. REPORTS FROM THE MIDDLE AND LOWER RIO GRANDE BASIN IN NEW MEXICO INDICATE CONSIDERABLY LESS THAN NORMAL CARRYOVER STORAGE.

THE ONE BRIGHT SPOT IN THE TWO STATE AREA IS THE CANADIAN AND PECOS DRAINAGES. RESERVOIRS IN THIS AREA ARE FULL AND RUNNING OVER.

STREAMFLOW

STREAMFLOW WILL BE BELOW NORMAL IN BOTH STATES. WATER USERS THAT DO NOT HAVE SUPPLEMENTAL STORAGE OR THAT ARE NOT BELOW RESERVOIRS WILL EXPERIENCE SHORTAGES. UNLESS THE SNOW FALL IN THE NEXT TWO MONTHS IS EXTREMELY HEAVY, SOME OF THESE SHORTAGES COULD BE CRITICAL.

WATER SUPPLY OUTLOOK

THE MAP ON THIS PAGE INDICATES THE MOST PROBABLE WATER SUPPLY AS OF THE DATE OF THIS REPORT. ESTIMATES ASSUME AVERAGE CONDITIONS OF SNOW FALL, PRECIPITATION AND OTHER FACTORS FROM THIS DATE TO THE END OF THE FORECAST PERIOD. AS THE SEASON PROGRESSES ACCURACY OF ESTIMATES IMPROVE. IN ADDITION TO EXPECTED STREAM-FLOW, RESERVOIR STORAGE, SOIL MOISTURE IN IRRIGATED AREAS, AND OTHER FACTORS ARE CONSIDERED IN ESTIMATING WATER SUPPLY. ESTIMATES APPLY TO IRRIGATED AREAS ALONG THE MAIN STREAMS AND MAY NOT INDICATE CONDITIONS ON SMALL TRIBUTARIES.

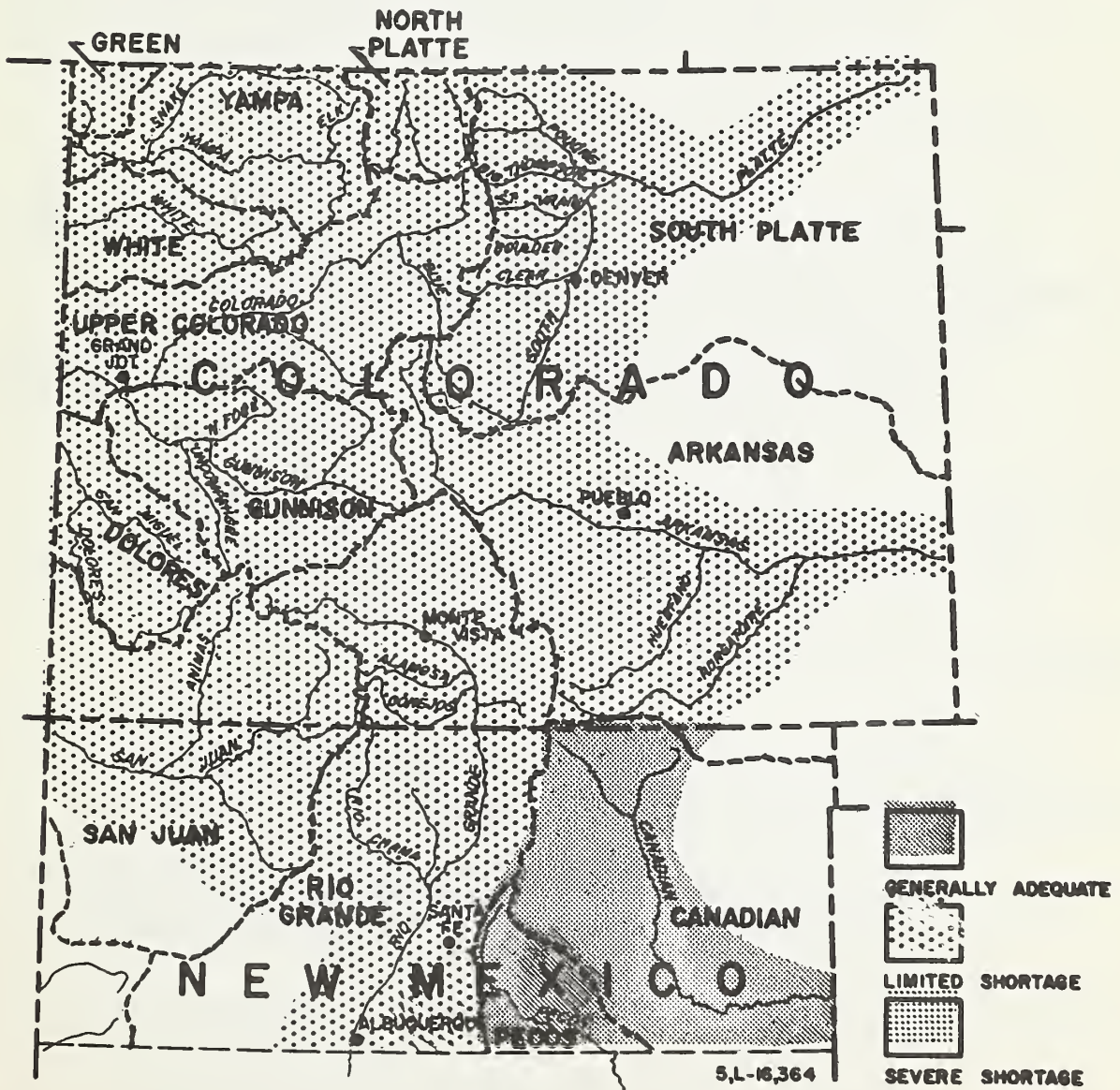


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WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED 1 - SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, West Plum, Cherry Creek, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.

WATERSHED 2 - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca County, Southeastern Baca County, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, West Otero and East Otero Soil Conservation Districts.

WATERSHED 3 - RIO GRANDE RIVER WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Mosca, Hooper, Mt. Blanca, and Sanchez Soil Conservation Districts.

WATERSHED 4 - RIO GRANDE RIVER WATERSHED (NEW MEXICO)

Describes water supply conditions in Lower Cebolla, Abiquiu-Vallecitos, Eastern Taos, Lindrith, Coyote-Canones, Espanola Valley, Pojoaque, Jemez, Santa Fe-Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED 5 - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, and San Juan Soil Conservation Districts.

WATERSHED 6 - GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

WATERSHED 7 - COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Lower Grand Valley, Bookcliff, Rifle Silt, Eagle County, Middle Park, Glade Park, Upper Grand Valley, Plateau Valley, South Side, and Mt. Sopris Soil Conservation Districts.

WATERSHED 8 - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, Upper White River, Lower White River, and Douglas Creek Soil Conservation Districts.

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

SNOW COVER OVER THE ENTIRE SOUTH PLATTE BASIN WAS 61% OF THE AVERAGE FOR THIS DATE. SNOW DOES NOT VARY MUCH FOR ANY PARTICULAR BASIN, BUT THE BOULDER RIVER SEEMS TO BE SLIGHTLY BETTER THAN THE REST. THE STORM THAT HIT DURING THE LATTER PART OF FEBRUARY HELPED CONSIDERABLY. MANY MORE STORMS WILL BE NEEDED TO ASSURE ADEQUATE WATER FOR THE SUMMER MONTHS.

SOIL MOISTURE

FALL READING OF MOUNTAIN SOIL MOISTURE STATIONS INDICATED EXTREMELY POOR SOIL MOISTURE, HOWEVER, THIS SITUATION COULD HAVE IMPROVED DURING THE LAST MONTH.

HEAVY SNOW MELT WAS EVIDENT AS HIGH AS THE 8600' ELEVATION LEVEL. THIS IS VERY UNUSUAL DURING FEBRUARY. THE MELTING SNOW WILL INCREASE THE SOIL MOISTURE. MOST VALLEY AREAS ARE REPORTING FAIR TO GOOD SOIL MOISTURE. PRECIPITATION DURING THE EARLY FALL MONTH WAS GOOD OVER THE PLAINS AREA. THE FOOTHILLS REGION HAS POOR TO FAIR SOIL MOISTURE.

RESERVOIR STORAGE

OVERALL STORAGE ON THE SOUTH PLATTE IS SLIGHTLY BETTER THAN NORMAL, BUT NOT AS GOOD AS LAST YEAR. STORAGE IN THE BIG THOMPSON PROJECT IS A LITTLE BETTER THAN LAST YEAR AND CONSIDERABLY ABOVE AVERAGE. THIS STORAGE WILL HELP REDUCE THE SHORTAGE EXPECTED FROM STREAMFLOW RUNOFF.

STREAMFLOW

STREAMFLOW IS EXPECTED TO BE AROUND 70% FOR THE BASIN. THE MAJOR TRIBUTARIES VARY FROM 62% ON THE ST. VRAIN TO 78% ON BOULDER CREEK. DOWN STREAM SHORTAGES WILL EXIST UNLESS THE NEXT TWO MONTHS PRODUCE A MUCH HIGHER THAN NORMAL SNOW FALL.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

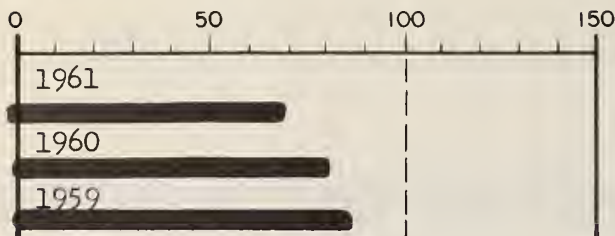
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K. W. Chalmers, State Conservationist,
Colorado

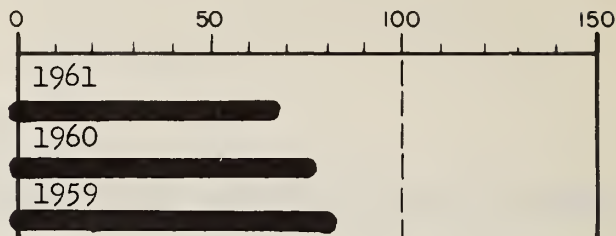
R. G. Wilson, Area Conservationist,
Littleton, Colorado

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

CACHE LA POUDRE - BOULDER



CLEAR CREEK - UPPER SOUTH PLATTE



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE *
Horsetooth**	143.5	98.8	98.0	90.2
Windsor	18.6	9.1	11.9	8.5
Cache LaPoudre	9.5	5.3	8.4	6.4
Fossil Creek	11.6	7.6	8.5	6.6
Halligan	6.4	3.4	4.5	1.9
Chambers Lake	8.8	1.7	3.1	1.7
Cobb Lake	34.3	12.8	18.7	5.5
Black Hollow	8.0	2.2	3.9	3.2
Carter Lake**	108.9	74.1	73.6	63.7
Lake Loveland	14.3	7.7	9.6	5.2
Boyd Lake	44.0	34.6	37.1	18.1
Lone Tree	9.2	5.0	7.6	5.6
Mariano	5.4	4.0	5.1	2.2
Union	12.7	8.5	11.6	6.7
Eleven Mile	81.9	97.8	97.8	69.2
Cheeseman	79.0	59.7	60.5	47.6
Marston	18.9	5.3	15.5	14.2
Antero	33.0	15.5	15.7	14.2
Gross**	43.1	17.4	23.1	-
Milton	24.4	15.3	14.7	9.7
Standley	18.5	8.8	15.3	10.0
Marshall	10.3	1.9	5.9	1.6
Terry Lake	8.2	4.2	5.9	4.3

MEASURED FIRST OF MONTH

* 15 yr. Avg. 1943-57

** Less than 15 years

PRECIPITATION

STATION	FALL		WINTER	
	AVE.	DEP.	AVE.	DEP.
			Dec.-Jan.	
So. Platte	3.44	-1.13	1.24	-.26

PRELIMINARY U. S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Feather	6.0	0.0	4.5	1.1
Laramie Road	7.0	0.8	5.3	2.2
Beaver Dam	6.0	0.7	4.6	1.3
Two Mile	8.0	0.5	5.0	3.0
Guard Station	7.0	0.7	2.2	1.1
Alpine Camp	7.0	0.5	5.8	1.5
Hoop Creek	6.0	0.5	4.4	2.0
Alma	7.0	0.9	5.0	2.2
Kenosha Pass	7.0	0.4	2.8	2.1
* All past data				

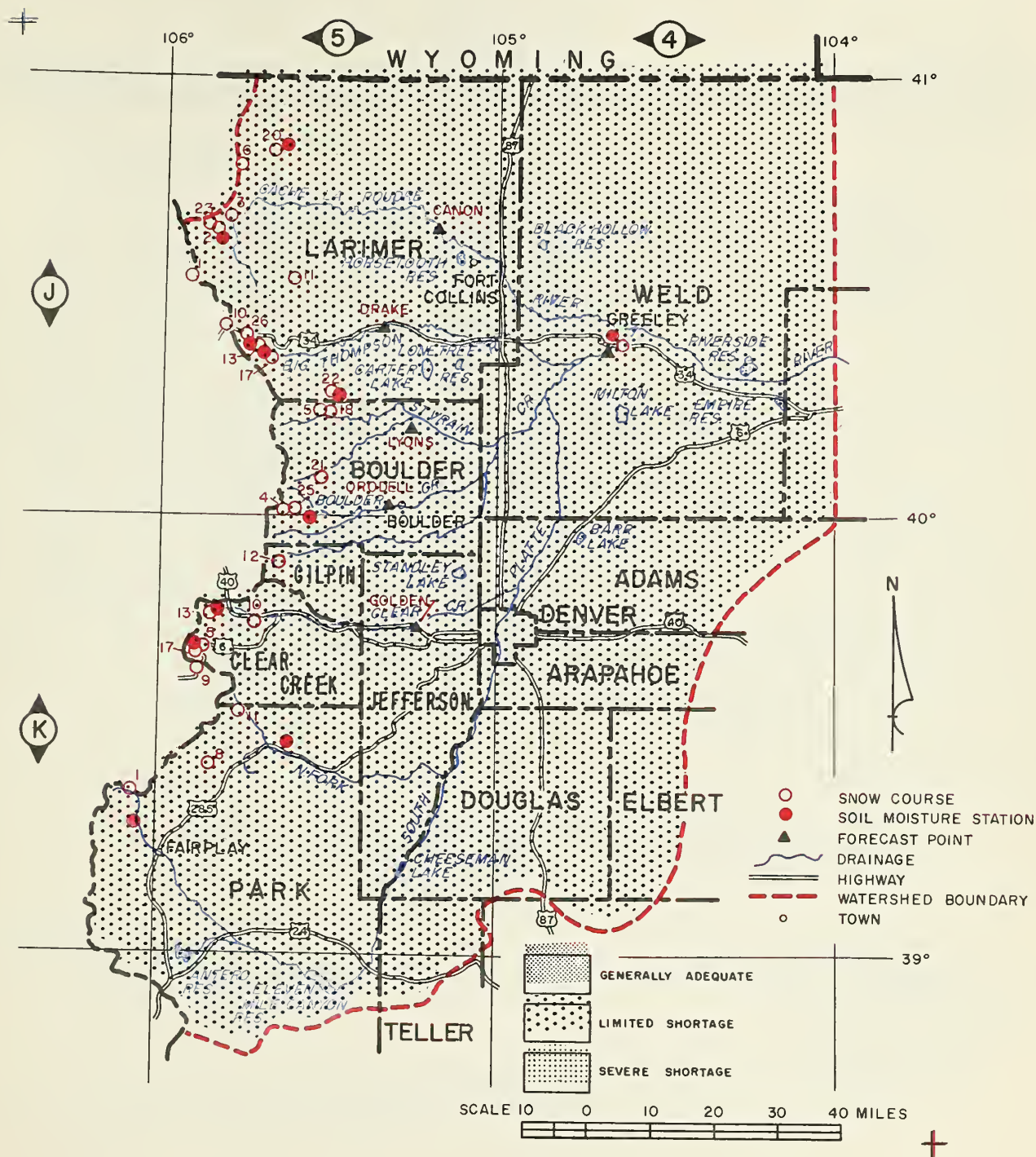
ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
Cache La Poudre at Canon(1)	125	66	189
Big Thompson at Drake (2)	80	75	106
Saint Vrain at Lyons	52	62	84
Boulder at Orodell	43	78	55
Clear Creek at Golden (3)	90	66	137

- (1) Observed flow minus diversions from Michigan, Colorado and Laramie rivers, plus diversions for irrigation and municipal use above station.
- (2) Observed flow plus by-pass to power plants.
- (3) Observed flow minus diversions through Jones Tunnel.

SOUTH PLATTE RIVER WATERSHED IN COLORADO



SNOW

SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD		
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
SOUTH PLATTE RIVER and TRIBUTARIES							
Cameron Pass (a)	5J1	2/27	63	14.8	18.0	18.0	24
Chambers Lake	5J2	2/26	19	4.1	7.0	7.0	24
Big South	5J3	2/26	5	.9	2.5	2.2	23
Wild Basin	5J5	Est.	34	5.8	10.8	11.9	23
Loveland Pass	5K5	2/25	33	8.1	11.8	12.5	24
Hoosier Pass	6K1	2/27	36	7.0	11.1	10.0	23
Lake Irene	5J10	Est.	46	8.6	NS	18.6	22
Deadman Hill (a)	5J6	Est.	48	8.1	14.0	12.2	24
Hour Glass Lake	5J11	2/24	17	3.3	3.7	6.6	20
University Camp	5J8	2/27	45	10.8	14.2	17.7	23
Jefferson Creek	5K8	2/27	25	4.3	6.5	7.5	20
Hidden Valley	5J13	2/26	34	6.1	7.9	9.4	20
Grizzly Peak *	5K9	2/23	35	7.3	14.9	14.9	19
Red Feather	5J20	2/25	21	5.3	4.2	6.7	11
Deer Ridge	5J17	2/26	11	2.0	2.3	4.7	12
Copeland Lake	5J18	2/27	16	3.3	2.6	4.7	12
Empire	5K10	2/28	25	4.7	4.7	6.3	12
Geneva Park	5K11	2/27	10	1.4	3.4	4.0	11
Ward	5J21	2/28	22	4.8	3.8	5.6	11
Lost Lake	5J23	2/26	27	5.8	8.1	11.1	9
Long's Peak	5J22	2/25	31	5.6	8.6	9.9	10
Boulder Falls	5J25	2/27	36	6.4	7.8	9.5	7
Berthoud Falls	5K13	2/28	39	9.2	11.4	12.6	10
Two Mile	5J26	2/26	30	6.1	11.6	12.1	9
Loveland Lift No. 1	5K24	2/25	49	12.7	-	-	-
Baltimore	5K23	2/28	24	5.8	-	-	-
Pine Creek	5J31	2/25	8	2.2	-	-	-
* On adjacent drainage							
NS No survey							
(a) Air observed							

This Report Prepared by
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 Soil Conservation Service
 Colorado State University
 Ft. Collins, Colorado

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DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Snow Survey
 Colorado State University
 Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
ARKANSAS RIVER WATERSHED IN COLORADO

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

THE SNOW PACK OVER THE ARKANSAS BASIN RANGES FROM 80% OF THE 15-YEAR AVERAGE (1943-57) TO 65% ON THE HEADWATERS. THE PROSPECTS FOR AN ADEQUATE WATER SUPPLY FOR AGRICULTURAL USE THIS SUMMER ARE NOT OPTIMISTIC. IF THE NEXT MONTH AND A HALF PRODUCE MUCH ABOVE AVERAGE SNOW FALL WE COULD EXPECT THE WATER SUPPLY OUTLOOK TO IMPROVE.

SOIL MOISTURE

SOIL MOISTURE CONDITIONS AT THE HIGH ELEVATIONS IS GENERALLY 50% OF NORMAL WITH THE ONE EXCEPTION, LAVETA PASS AREA, WHICH IS ABOVE NORMAL. VALLEY AND MEDIUM ELEVATION SOILS RANGE FROM 90% TO 100% OF NORMAL. THIS CONDITION WILL TEND TO REDUCE THE WATER SUPPLY OUTLOOK THIS SEASON.

RESERVOIR STORAGE

CARRYOVER STORAGE IN THE VALLEY RESERVOIRS IS MUCH BELOW NORMAL. JOHN MARTIN RESERVOIR CONTAINS ONLY 29% OF NORMAL STORAGE. OTHER RESERVOIRS ARE SIMILAR AND SLIGHTLY BELOW LAST YEAR.

STREAMFLOW

RUNOFF ON THE MAIN STEM OF THE ARKANSAS RIVER WILL RANGE 68% TO 72% OF NORMAL THIS YEAR. THE TRIBUTARY STREAMS RANGE FROM 50% OF AVERAGE ON THE PURGATOIRE TO 78% ON THE CUCHARAS.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

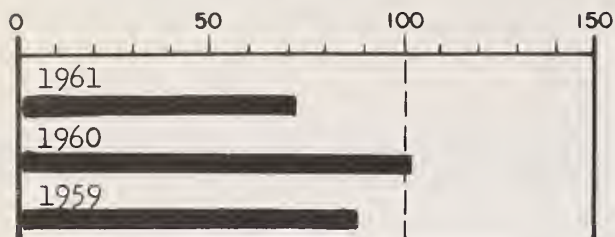
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K. W. Chalmers, State Conservationist,
Colorado

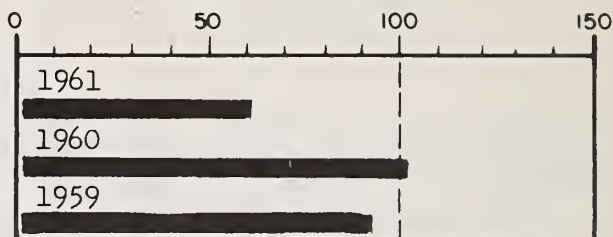
Dearl B. Beach, Area Conservationist,
Colorado Springs, Colorado
Will D. McCorkle, Area Conservationist,
Lamar, Colorado

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

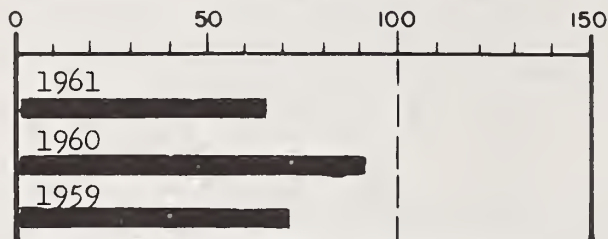
ARKANSAS ABOVE CADDOA DAM



ARKANSAS BELOW CADDOA DAM



PURGATOIRE - CUCHARAS - HUERFANO



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE %
Twin Lakes	57.9	9.3	10.7	22.9
Sugar Loaf	17.4		3.2	7.7
Clear Creek	11.4		8.2	5.0
Meredith	41.9	6.0	-	14.3
Horse Creek	26.9	0	0	7.4
Adobe Creek	61.6	0	0	21.6
Cucharas	40.0	1.8	1.2	4.7
John Martin	366.6	15.5	20.9	52.6
Model	15.0	4.3	3.4	2.5
Great Plains		20.9	55.4	

* 15 yr. Avg. 1943-57

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE %
Leadville	7.0	0.6	1.0	1.1
Twin Lakes	6.0	1.6	4.0	3.7
Garfield	7.0	3.4	4.8	4.3
King	8.0	2.6	5.9	6.1
LaVeta Pass	8.0	7.2	2.8	3.1

*All past data

ALL PROFILES 4 FEET DEEP

PRECIPITATION

STATION	FALL *		WINTER	
	AVE.	DEP.	AVE. Dec.-Jan.	DEP.
Arkansas	4.76	.08	1.16	-.18

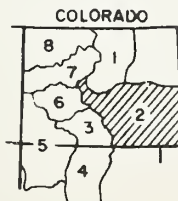
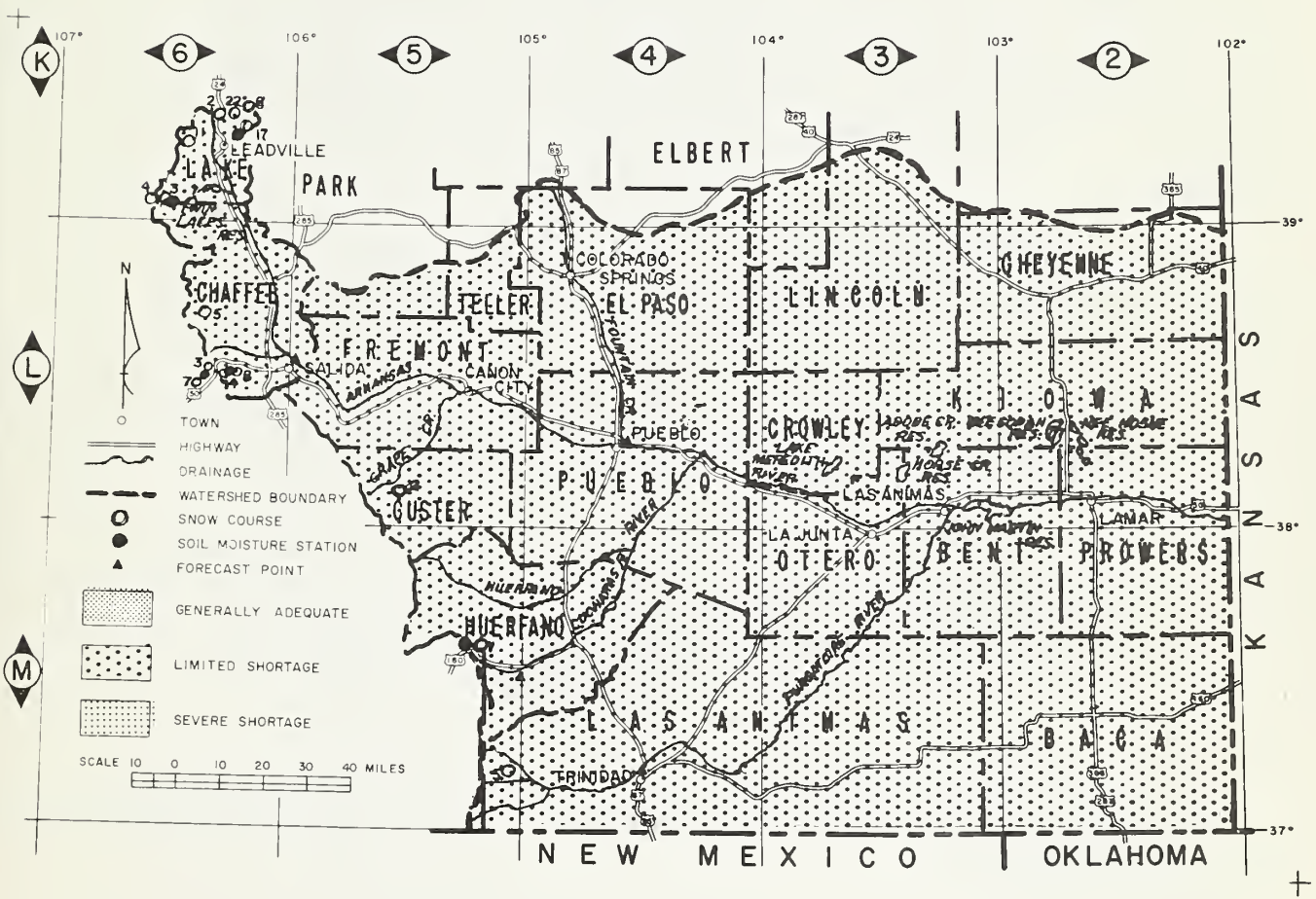
PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

STREAMFLOW FORECAST (1000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
Arkansas at Salida (1)	237	70	339
Arkansas at Pueblo (1)	242	71	342
Cucharas nr LaVeta	11	78	14
Purgatoire at Trinidad	26	50	52

(1) Observed flow plus change in storage in Clear Creek, Twin Lakes, and Sugar Loaf Reservoirs minus diversions through Busk-Ivanhoe and Twin Lake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine Ditches.

ARKANSAS RIVER WATERSHED IN COLORADO



SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD		
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
ARKANSAS RIVER							
Tennessee Pass	6K2	2/28	28	4.8	9.1	7.9	25
Twin Lakes Tunnel	6K3	2/26	21	4.3	8.0	8.9	22
LaVeta Pass *	5M1	2/25	27	6.6	7.0	8.4	23
Four Mile Park	6K7	2/28	17	3.6	2.4	3.7	22
Fremont Pass	6K8	2/24	34	7.4	14.2	13.2	25
Garfield	6L8	2/28	48	9.9	7.5	-	-
Monarch Pass	6L4	2/27	57	12.6	12.4	14.9	19
St. Elmo (a)	6L5	2/27	46	8.7	9.7	10.5	10
Timberline	6K11	NS			15.3	21.9	10
East Fork	6K17	2/24	20	4.2	7.6	8.5	8
Westcliffe	5L2	2/27	32	5.1	4.9	5.7	8
Bourbon	5M5	2/23	32	5.2	7.8	6.9	5
Tomichi	6L7	2/27	34	7.2	8.2	-	-
Cooper Hill	6K23	2/27	34	6.4	13.5	-	-
* On adjacent drainage (a) Air observed NS No survey							

This Report Prepared by
 Jack N. Washichek and Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Ft. Collins, Colorado

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**WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
UPPER RIO GRANDE RIVER WATERSHED IN COLORADO**

**as of
MARCH 1, 1961**

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

THE MAIN STEM OF THE RIO GRANDE HAS THE POOREST SNOW COVER IN THE STATE. SOME OF THE ELEVEN COURSES MEASURED IN THIS AREA SHOW ONLY 40% OF THE 15-YEAR AVERAGE. OTHER COURSES ARE SOME HIGHER, BUT THE OVER-ALL AVERAGE IS ONLY 50% OF NORMAL. THE EASTERN SIDE OF THE SAN LUIS VALLEY HAS BETTER PROSPECTS AND HAS A 75% SNOW PACK. THE ALAMOSA AND THE CONEJOS DRAINAGES HAVE SNOW COVER PERCENTAGES OF 67% AND 55%, RESPECTIVELY.

SOIL MOISTURE

SOIL MOISTURE IS BETTER IN THE MOUNTAIN AREAS THAN USUAL. THIS MAY OFF-SET TO SOME EXTENT THE POOR SNOW COVER. VALLEY AREAS ARE REPORTING FAIR TO POOR SOIL MOISTURE.

RESERVOIR STORAGE

CARRYOVER STORAGE IN THE SIX MAJOR RESERVOIRS ON THIS DRAINAGE IS LESS THAN THAT LAST YEAR AND ONLY 60% OF NORMAL.

STREAMFLOW

RUNOFF IS EXPECTED TO BE BETWEEN 60% AND 70% OF NORMAL. THE TWO REMAINING MONTHS OF THE SNOW SEASON WILL HAVE TO PRODUCE HEAVY SNOW FALL TO INSURE ADEQUATE WATER FOR THIS SUMMER. THIS IS STILL A POSSIBILITY.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

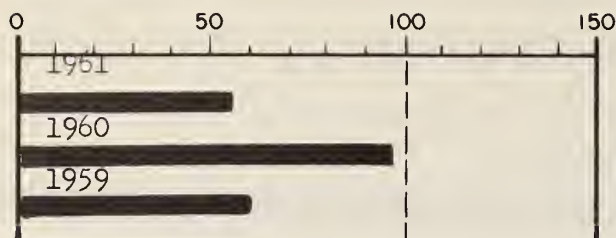
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**K. W. Chalmers, State Conservationist,
Colorado**

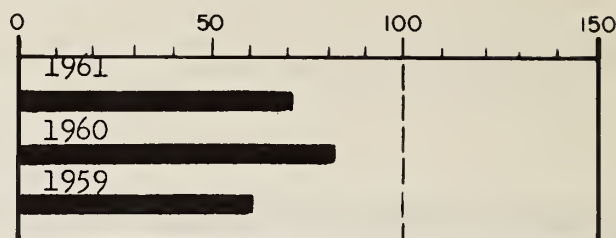
**J. P. Sexton, Jr., Area Conservationist,
Monte Vista, Colorado**

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

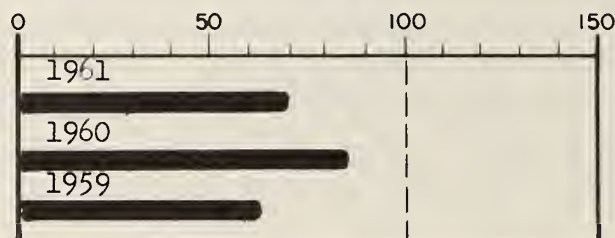
RIO GRANDE



ALAMOSA - CONEJOS



SANGRE DE CRISTO STREAMS



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE *
Rio Grande	45.8	6.3	12.0	11.1
Santa Maria	45.0	2.7	4.0	7.5
Sanchez	103.2	6.5	11.5	9.6
Terrace	17.7	2.3	6.1	2.6
Continental	26.7	4.4	4.1	7.3
Platoro	60.0	4.0	4.0	4.7
* 15 year 1943-57 Avg.				

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	FALL AVE. DEP.		WINTER Dec.-Jan.	
Rio Grande (Colo.)	1.07	-.24	.84	-.15
*August through November				

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Bristol View	7.0	6.7	5.5	3.6
Alberta Park	9.0	1.1	5.0	3.2
Mogote	7.0	1.8	1.1	1.4
LaVeta Pass	8.0	7.2	2.8	3.1
* All past data				

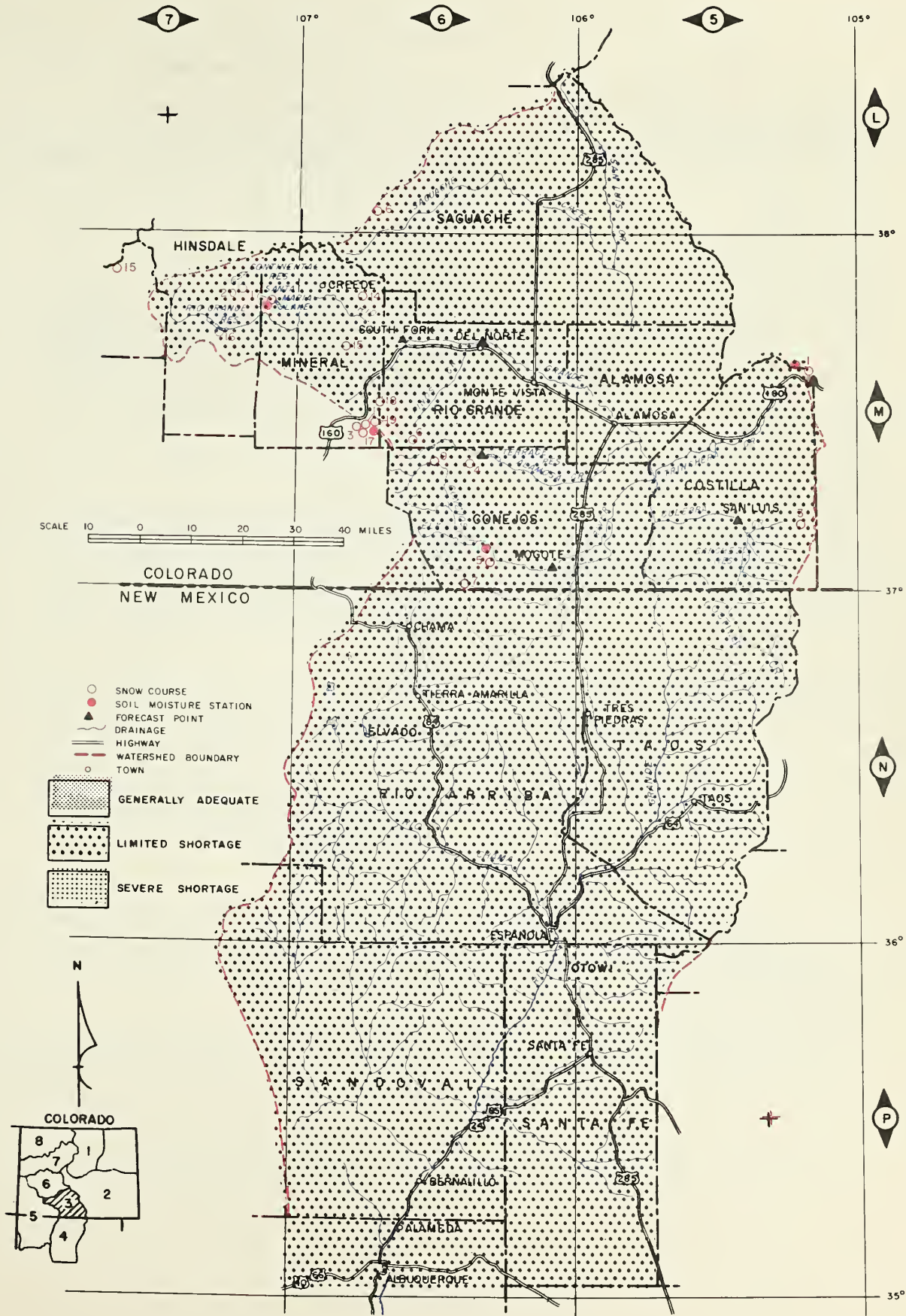
ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
South Fork at South Fork	80	66	121
Rio Grande nr Del Norte 1	335	67	491
Alamosa above Terrace	48	68	71
Conejos nr Mogote	135	69	197
Culebra at San Luis 2	16	67	24

- (1) Observed flow plus change in storage in Santa Maria, Rio Grande, and Continental Reservoir
(2) Observed flow plus changes in storage in Sanchez Reservoir.

UPPER RIO GRANDE RIVER WATERSHED IN COLORADO



SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD		
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
RIO GRANDE in COLORADO							
Wolf Creek Pass	6M1	2/25	42	9.8	27.2	25.4	24
Upper Rio Grande	7M16	2/25	20	4.9	9.0	6.8	23
Santa Maria	7M17	2/25	8	1.4	5.1	4.7	22
Pool Table	5M14	2/23	20	3.8	12.0	5.3	12
Lake Humphreys	6M15	2/25	13	3.4	6.7	6.4	12
Cochetopa Pass	6L6	2/28	24	5.3	5.7	4.8	12
Red Mountain Pass *	7M15	2/28	66	16.4	27.4	25.2	10
Porcupine	7M20	2/26	23	4.1	12.1	9.1	10
Wolf Creek Summit *	7M17	2/25	43	11.3	33.9	23.0	10
Hiway	6M19	2/26	35	8.8	29.3	24.3	5
Pass Creek	6M18	2/25	21	3.4	10.5	11.1	5
ALAMOSA RIVER							
Silver Lakes	6M4	2/24	19	4.2	5.5	6.2	24
Summitville (a)	6M6	2/25	52	10.9	22.0	16.2	19
CONEJOS RIVER							
River Springs	6M5	2/24	17	3.6	4.8	7.4	24
Cumbres Pass (a)	6M7	2/27	40	9.8	26.1	16.8	24
Platoro	6M9	NS			NS	13.0	10
SANGRE DE CRISTO RANGE (Colo)							
LaVeta Pass	5M1	2/25	27	6.6	7.0	8.4	23
Culebra	5M3	2/28	32	6.3	9.8	8.7	20
* On adjacent drainage							
(a) Air observed							
NS No survey							

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**WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
RIO GRANDE RIVER WATERSHED IN NEW MEXICO**

**as of
MARCH 1, 1961**

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

THE SNOW PACK ON THE HEADWATERS OF THE RIO GRANDE IN COLORADO IS ONLY 50% OF THE 15-YEAR AVERAGE. THE FIFTEEN SNOW COURSES ON THE RIO GRANDE DRAINAGE IN NEW MEXICO INDICATE 83% OF NORMAL FOR THIS MONTH. UPPER AREAS ON THE RIO GRANDE WILL PROBABLY HAVE SOME WATER SHORTAGE THIS SUMMER.

SOIL MOISTURE

FALL READINGS OF THE MOUNTAIN SOIL MOISTURE STATIONS INDICATED PRACTICALLY NO SOIL MOISTURE. SINCE THEN SOME SNOW HAS MELTED WHICH TENDS TO IMPROVE THIS CONDITION. VALLEY SOIL MOISTURE IS REPORTED AS POOR TO FAIR.

RESERVOIR STORAGE

HOLD OVER STORAGE ON THE RIO GRANDE IS LESS THAN LAST YEAR AND CONSIDERABLY BELOW NORMAL. ELEPHANT BUTTE CONTAINS ONLY 427,700 A.F. COMPARED TO A 15-YEAR AVERAGE OF 606,600 A.F. STORAGE ON THE CANADIAN AND PECOS DRAINAGES IS EXCELLENT. MOST OF THE RESERVOIRS ARE FULL. THIS ASSURES A GOOD WATER SUPPLY TO AREAS BELOW THESE RESERVOIRS.

STREAMFLOW

STREAMFLOW IN THE RIO GRANDE BASIN IN NEW MEXICO WILL BE BELOW NORMAL. UNLESS THE NEXT TWO MONTHS PRODUCE MUCH ABOVE NORMAL SNOW FALL, MOST AREAS WILL HAVE A SHORT WATER SUPPLY THIS SUMMER.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION, STATE ENGINEER OF COLORADO AND STATE ENGINEER OF NEW MEXICO.

ISSUED BY: SOIL CONSERVATION SERVICE

**R. A. Young, State Conservationist,
New Mexico**

**H. M. Cavett, Area Conservationist,
Sante Fe, New Mexico**

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

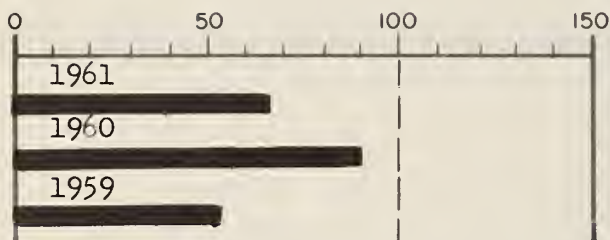
RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE *
Elephant Butte	2206.8	427.7	587.9	606.6
Caballo	344.0	73.8	122.6	170.4
El Vado	194.5	2.6	2.7	34.9
Alamogordo	122.1	122.1	115.0	55.4
McMillan-Avalon	37.0	43.0	13.0	13.4
Red Bluff (Tex)	307.0	131.0	74.7	91.7
Conchas	600.0	279.4	326.9	262.5

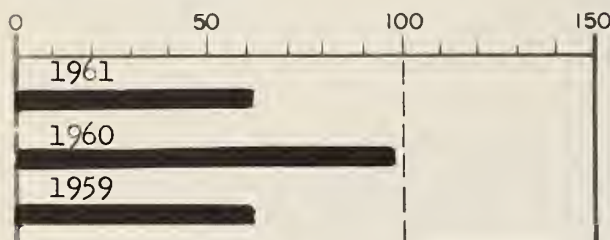
MEASURED FIRST OF MONTH

* 15 year avg. 1943-57

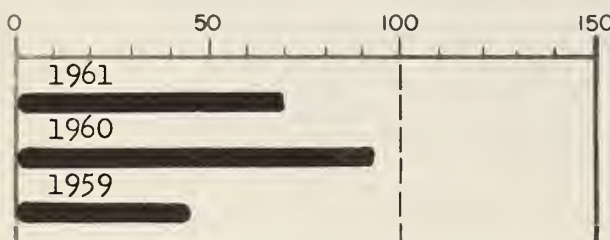
RIO CHAMA



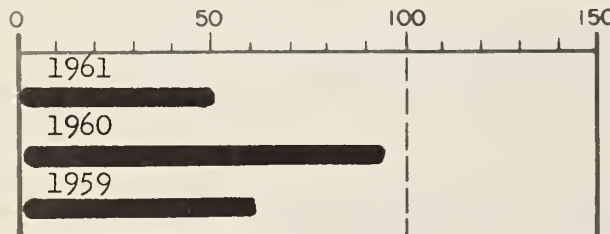
UPPER RIO GRANDE



MIDDLE RIO GRANDE



LOWER RIO GRANDE



PRECIPITATION

STATION	FALL *		WINTER	
	AVE.	DEP.	AVE.	DEP.
			Dec.-Jan.	
Upper Rio Grande	1.07	-.24	.84	-.15
Middle Rio Grande	4.89	-1.18	1.92	-.19
Lower Rio Grande	3.31	-.88	1.82	.71

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

* August through November

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Mogote (Colo)	7.0	1.8	1.1	1.4
Bristol View (Colo)	7.0	6.7	5.5	3.6
Alberta Park (Colo)	9.0	1.1	5.0	3.2
Chamita (New Mexico)	8.0	1.9	-	2.4
Bateman	6.7	0.2	-	4.3
Big Tesuque	3.7	0.7	1.3	2.9
Taos Canyon	3.3	0.6	0.4	2.8
Rio En Medio	3.5	0.1	0.5	2.6
Fenton Hill	6.5	4.3	2.0	-
Red River	7.8	0.2	0.7	2.3
Aqua Piedra	7.2	2.9	0.2	1.7

ALL PROFILES 4 FEET DEEP

* All past data

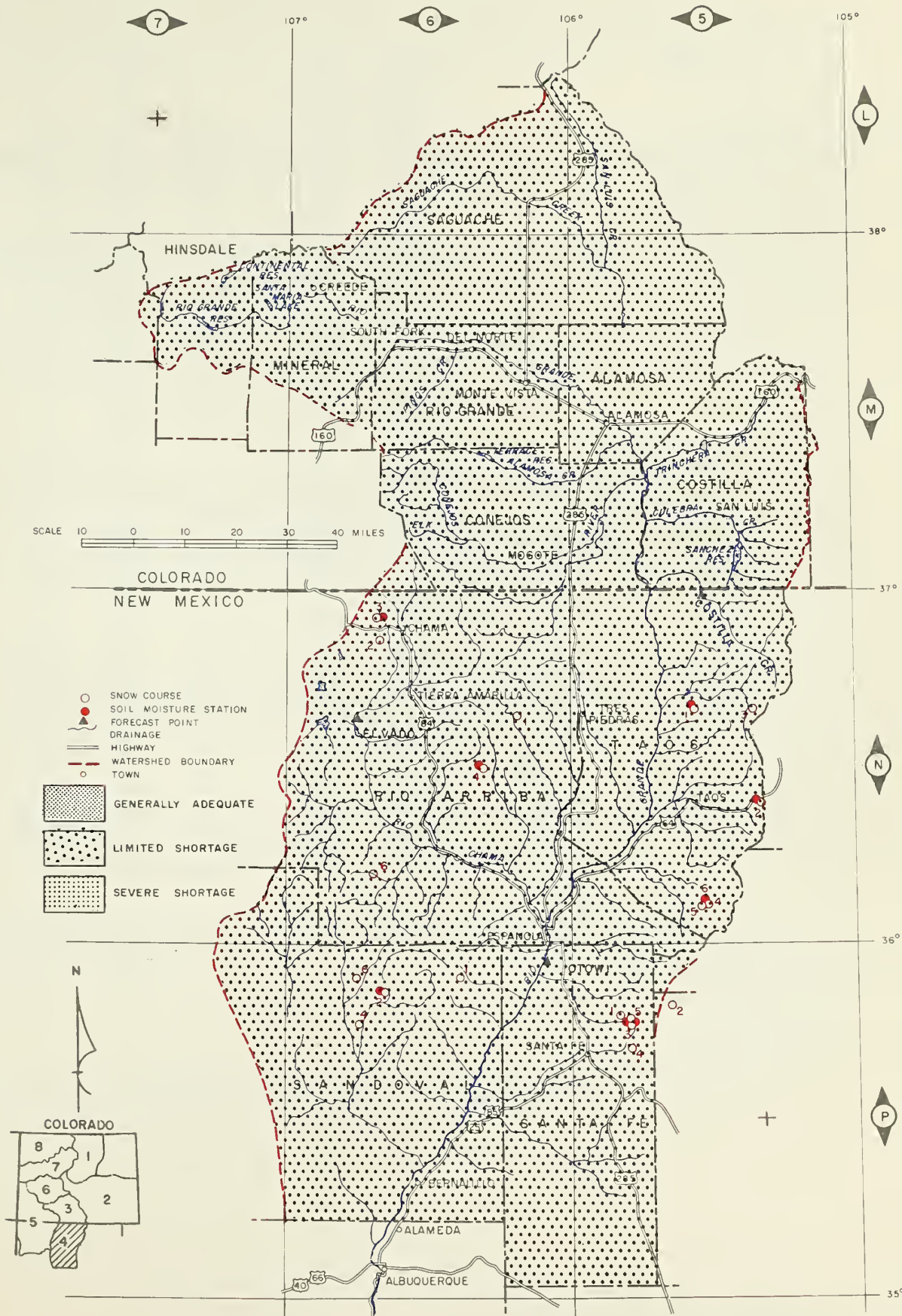
STREAMFLOW FORECAST (1000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
Rio Chama nr La Puente	140	67	210
Costilla at Costilla	19	70	27
Rio Grande at Otowi (10)	365	58	633
Rio Gr. at San Marcial (10)	190	44	434
Pecos at Pecos	40	83	48

(10) Observed flow plus changes in storage in Santa Maria, Rio Grande, Continental, Terrace, Sanchez, Platoro and El Vado Reservoirs.

* Rio Grande at Otowi and Rio Grande at San Marcial ave. Mar-July inclusive.

RIO GRANDE RIVER WATERSHED IN NEW MEXICO



SNOW

SNOW		CURRENT INFORMATION			PAST RECORD		
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
RIO GRANDE (Colorado)							
Wolf Creek Pass	6M1	2/25	42	9.8	27.2	25.4	24
Upper Rio Grande	7M16	2/25	20	4.9	9.0	6.8	23
Santa Maria	7M17	2/25	8	1.4	5.1	4.7	22
Pool Table	6M14	2/23	20	3.8	12.0	5.3	12
Lake Humphreys	6M15	2/25	13	3.4	6.7	6.4	12
Cochetopa Pass	6L6	2/28	24	5.3	5.7	4.8	12
Porcupine (a)	7M20	2/26	23	4.1	12.1	9.1	10
Wolf Creek Summit	6M17	2/25	43	11.3	33.9	23.0	10
Hiway	6M19	2/26	35	8.8	29.3	24.3	5
Pass Creek	6M18	2/25	21	3.4	10.5	11.1	5
Silver Lakes	6M4	2/24	19	4.2	5.5	6.2	24
Summitville (a)	6M6	2/25	52	10.9	22.0	16.2	19
River Springs	6M5	2/24	17	3.6	4.8	7.4	24
Cumbres Pass (a)	6M7	2/25	40	9.8	26.1	16.8	24
Platoro	6M9	NS			NS	13.0	10
LaVeta Pass	5M1	2/25	27	6.6	7.0	8.4	23
Culebra	5M3	2/28	32	6.3	9.8	8.7	20
RIO GRANDE (New Mexico)							
Payrole (a)	6N1	2/25	31	6.2	14.0	8.4	20
Chama Divide	6N2	2/27	14	3.0	6.1	4.4	21
Chamita	6N3	2/27	30	5.8	8.5	9.3	20
Bateman	6N4	2/24	31	7.8	11.2	10.1	11
Panchuela	5P2	2/27	14	2.9	6.0	3.3	22
Big Tesuque	5P3	2/27	12	2.6	7.0	4.7	19
Rio En Medio	5P5	2/27	29	6.5	11.4	6.7	11
Red River	5N1	2/28	24	4.8	5.7	6.9	23
Taos Canyon	5N2	2/28	17	3.6	5.8	5.5	23
Aspen Grove	5P1	2/24	13	2.4	8.7	4.1	24
Hematite Park	5N3	2/28	21	4.9	4.4	5.6	23
Tres Ritos	5N4	2/24	22	5.4	5.9	5.8	23
Cordova (a)	5N5	2/25	39	7.9	14.5	9.5	19
Elk Cabin	5P4	2/27	15	3.8	NS	3.1	13
Quemazon	6P1	2/23	34	9.3	11.7	7.1	11
Fenton Hill	6P2	2/28	19	4.3	6.3	4.2	9

NS No survey
(a) Air observed
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
**SAN MIGUEL - DOLORES - ANIMAS - SAN JUAN
WATERSHEDS IN COLORADO & NEW MEXICO**

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW

SNOW COVER IN THIS AREA IS MUCH BELOW NORMAL. ON THE FIRST OF FEBRUARY THE SNOW COVER WAS ONLY ABOUT 50% OF NORMAL. THE MONTH OF FEBRUARY DID NOT HELP THE SITUATION. THE SNOW PACK STILL REMAINS LESS THAN HALF OF THE 15-YEAR AVERAGE. THE DOLORES WATERSHED HAS SLIGHTLY BETTER COVER, BUT FAR FROM GOOD. THE WATER SUPPLY OUTLOOK BECOMES MORE CRITICAL SINCE ONLY TWO MONTHS OF THE SNOW SEASON REMAINS.

SOIL MOISTURE

MOUNTAIN SOILS WERE NEAR NORMAL PRIOR TO THE SNOW SEASON. SINCE THEN THERE HAS BEEN SOME MELTING DUE TO THE UNSEASONABLE HIGH TEMPERATURES. THE SOILS IN BOTH MOUNTAIN AND VALLEYS SHOULD BE IN GOOD CONDITION. REPORTS FROM THAT AREA INDICATE THE SOILS IN THE VALLEYS ARE WET DOWN AS MUCH AS SIX FEET IN SOME PLACES.

RESERVOIRS

NO REPORT WAS RECEIVED FROM VALLECITO RESERVOIR BUT GROUNDHOG RESERVOIR CONTAINS 4,000 A.F. COMPARED TO 3,200 A.F. LAST YEAR AND A 15-YR AVERAGE OF 7,000 A.F. FOR THIS DATE.

STREAMFLOW

THE ANTICIPATED STREAMFLOW IN THIS AREA RANGES FROM 55% OF NORMAL ON THE SAN JUAN TO 75% ON THE DOLORES. ALL OTHER STREAMS ARE BETWEEN THESE LIMITS.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION, STATE ENGINEER OF COLORADO AND STATE ENGINEER OF NEW MEXICO.

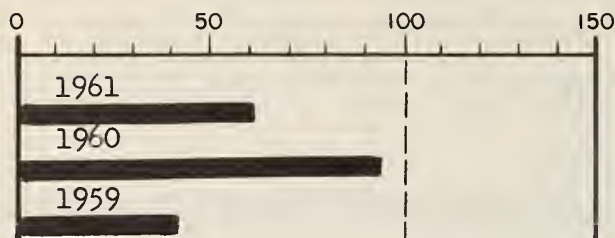
ISSUED BY: SOIL CONSERVATION SERVICE

K. W. Chalmers, State Conservationist,
Colorado
J. P. Sexton, Area Conservationist,
Monte Vista, Colorado
E. A. Nicholson, Area Conservationist *
Grand Junction, Colorado

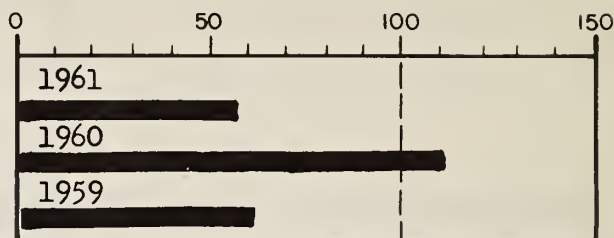
R. A. Young, State Conservationist,
New Mexico
J. B. Christy, Area Conservationist
Albuquerque, N. M.

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

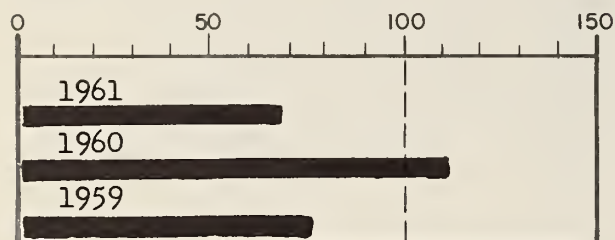
SAN JUAN



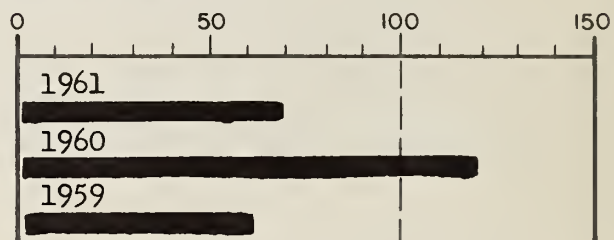
PIEDRA-PINOS-FLORIDA



DOLORES



ANIMAS-LA PLATA



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE *
Groundhog	21.7	4.0	3.2	7.0
Vallecito	126.3	-	-	41.0
* 15 Year Avg. 1943				

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	FALL *		WINTER	
	AVE.	DEP.	AVE. Dec.-Jan.	DEP.
Dolores	4.20	-1.00	3.21	.03
San Juan	6.92	-4.48	2.36	-.84
*August through November				

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Lizard Head	7.0	4.1	5.4	--
Dolores	7.0	0.7	2.5	--
Rico	7.0	4.8	5.0	--
Mineral Creek	7.0	4.1	5.6	4.8
Molas Lake	7.0	0.9	3.2	3.4
Cascade	7.0	4.5	5.7	5.5
* All past data				

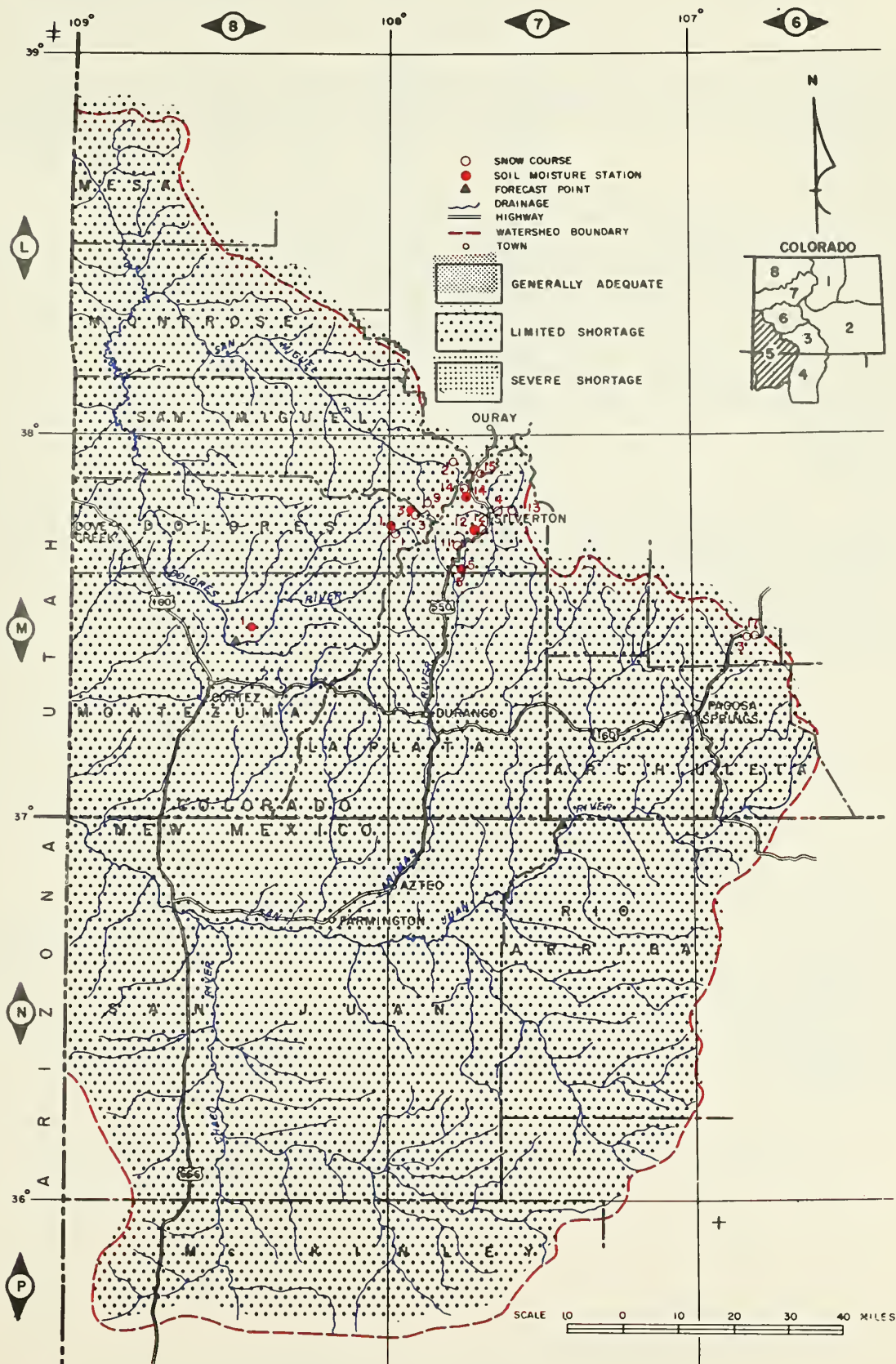
STREAMFLOW FORECAST (1,000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
San Juan at Rosa, N. M.	320	55	587
Los Pinos nr Bayfield*	160	73	220
Florida nr Durango	39	63	62
Animas at Durango	325	68	475
LaPlata at Hesperus	20	71	28
Dolores at Dolores	210	75	279
Piedra Cr. nr Piedra	103	55	186

ALL PROFILES 4 FEET DEEP

* OBSERVED FLOW PLUS CHANGES IN
STORAGE IN VALLECITO RESERVOIR

SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN RIVERS WATERSHEDS IN COLORADO & NEW MEXICO



SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD		
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
SAN JUAN RIVER							
Wolf Creek Pass*	6M1	2/25	42	9.8	27.2	25.4	24
Upper San Juan	6M3	2/25	48	11.8	30.1	27.6	23
Wolf Creek Summit	6M17	2/25	43	11.3	33.9	23.0	10
Chama Divide*	6N2	2/27	14	3.0	6.1	4.4	21
Chamita*	6N3	2/27	30	5.8	8.5	9.3	20
ANIMAS RIVER							
Silverton Sub-Station	7M4	2/28	12	2.5	7.4	5.1	20
Ironton Park*	7M6	2/27	36	8.8	11.6	10.3	22
Cascade	7M5	2/28	29	5.5	11.8	11.3	22
Spud Mountain	7M11	2/28	50	10.8	21.8	21.4	10
Molas Lake	7M12	2/28	26	5.1	10.2	12.6	10
Howardville	7M13	2/28	28	5.9	NS	9.7	8
Mineral Creek	7M14	2/28	32	6.0	13.7	13.1	10
Red Mountain Pass	6M19	2/28	66	16.4	27.4	25.2	10
DOLORES RIVER							
Rico	7M1	2/26	19	6.0	7.8	7.9	21
Telluride	7M2	2/27	25	4.5	5.3	6.7	22
Lizard Head	7M3	2/26	32	8.0	12.3	13.2	19
Trout Lake	7M9	2/27	33	6.4	13.0	11.6	12

* Adjacent drainage

NS No survey

This Report Prepared by
 Jack N. Washichek and Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
GUNNISON RIVER WATERSHED IN COLORADO

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW

THE SNOW PACK IN THIS AREA REMAINS ABOUT THE SAME AS LAST MONTH. SNOW ON THE UNCOMPAHGRE RIVER IS SLIGHTLY BETTER THAN ON THE MAIN STEM OF THE GUNNISON RIVER, BUT IT IS ONLY 65% OF THE 15-YR. AVERAGE. SNOW AT THE LOWER ELEVATIONS IS NOT TOO BAD, BUT AT HIGHER ELEVATIONS THE SNOW PACK IS CRITICAL. THIS COULD INDICATE A SHORT AND EARLY RUNOFF. THE TWO REMAINING MONTHS OF SNOW SEASON MUST BE FAR ABOVE NORMAL TO INSURE ADEQUATE WATER FOR THE VALLEY AREAS THIS SUMMER.

SOIL MOISTURE

SOIL MOISTURE REMAINS POOR AT HIGH AND LOW ELEVATIONS. SOIL MOISTURE STATIONS INDICATE PRACTICALLY NO MOISTURE IN THE SOIL EXCEPT IN THE VICINITY OF MOLAS PASS. REPORTS RECEIVED FROM THE VALLEY AREAS INDICATE SOIL MOISTURE IS POOR EXCEPT AROUND MONTROSE WHERE GOOD SOIL MOISTURE IS REPORTED.

RESERVOIR STORAGE

TAYLOR PARK RESERVOIR CONTAINS 31,100 A.F. AT THIS DATE COMPARED TO 46,200 A.F. LAST YEAR AND 60,900 A.F. AVERAGE.

STREAMFLOW

STREAMFLOW IN THIS AREA WILL BE ABOUT 65% OF NORMAL. THE UNCOMPAHGRE RIVER IS EXPECTED TO FLOW NEARLY 75% OF NORMAL, WHILE THE MAIN STEM OF THE GUNNISON WILL PROBABLY ONLY FLOW 61% OF THE 15-YR AVERAGE.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

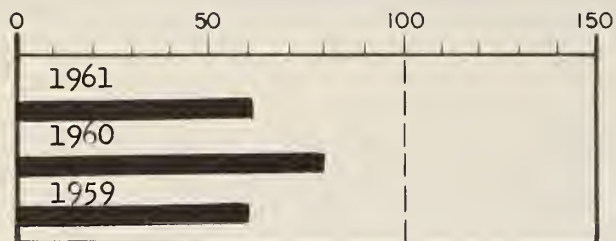
ISSUED BY: SOIL CONSERVATION SERVICE

K. W. Chalmers, State Conservationist,
Colorado

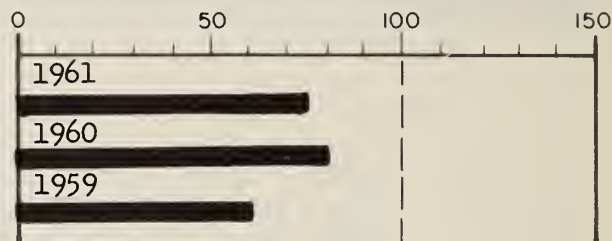
E. A. Nicholson, Area Conservationist,
Grand Junction, Colorado

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

GUNNISON



UNCOMPAGRE



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE *
Taylor	106.2	31.1	46.2	60.9
*15 yr. average 1943-57				

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	FALL*		WINTER	
	AVE.	DEP.	AVE.	DEP.
Gunnison	3.52	-1.10	1.23	-1.15
*August through November				

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Mineral Creek	7.0	4.1	5.6	4.8
Placita	8.0	0.1	2.4	1.5
Maroon	8.0	0.1	4.8	1.8
King	8.0		5.9	6.1
* All past data				

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
Gunnison nr. Grand Jct.	845	61	1386
Uncompahgre at Colona	112	77	145
Surface Cr. at Cedaredge	11	61	18

GUNNISON RIVER WATERSHED IN COLORADO



SNOW

SNOW		CURRENT INFORMATION			PAST RECORD		
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
GUNNISON RIVER							
Crested Butte	6L1	2/28	36	6.4	4.8	12.6	25
Park Cone	6L2	2/27	31	4.4	7.8	9.4	24
Alexander Lake (a)	7K3	2/27	30	7.2	16.9	17.6	23
Mesa Lakes *	7K4	2/25	32	7.1	14.9	13.2	24
Porphyry Creek	6L3	2/28	52	11.8	14.5	13.5	20
Monarch Pass *	6L4	2/28	57	12.6	12.4	14.9	19
North Lost Trail * (a)	7K1	2/27	38	7.1	9.8	12.8	24
Trickle Divide * (a)	7K5	2/27	47	12.2	18.9	22.2	20
Park Reservoir (a)	7K6	2/27	36	9.9	18.1	20.9	20
Cochetopa Pass	6L6	2/27	24	5.3	5.7	4.8	12
McClure Pass (a)	7K8	2/27	32	8.6	14.1	15.3	11
Mineral Creek *	7M14	2/28	33	6.0	13.7	13.1	10
Lake City	7M8	2/25	22	5.5	8.1	8.0	12
Tomichi	6L7	2/28	34	7.2	8.2	-	-
Blue Mesa	7L2	2/27	25	4.0	5.5	-	2
Keystone	7L3	2/27	38	7.6	-	-	-
Long Draw	7L4	Est.	25	4.5	-	-	-
UNCOMPAHGRE RIVER							
Ironton Park	7M6	2/27	36	8.8	11.6	10.3	22
Telluride	7M2	2/27	25	4.5	5.3	6.7	22
Lizard Head	7M3	2/27	32	8.0	12.3	13.2	19
Trout Lake	7M9	2/27	33	6.4	13.0	11.6	12
Red Mountain Pass *	7M15	2/28	66	16.4	27.4	25.2	10
NS - No Survey (a) Air Observed * On adjacent drainage							

This Report Prepared by
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 Colorado State University
 Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
COLORADO RIVER WATERSHED IN COLORADO

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

THE PROSPECTS FOR AN ADEQUATE WATER SUPPLY THIS SUMMER ARE DIMMING. WITH ONLY TWO MONTHS OF SNOW SEASON LEFT, THE SNOW PACK IS ONLY 55% OF NORMAL ON THE MAIN STEM OF THE COLORADO AND 50% OF NORMAL ON BOTH THE ROARING FORK AND PLATEAU CREEKS. THE REMAINING MONTHS OF SNOW WILL HAVE TO BE MUCH ABOVE NORMAL TO EVEN BRING THE SNOW PACK UP TO THE 15-YR. AVERAGE.

SOIL MOISTURE

THE FALL READINGS OF SOIL MOISTURE STATIONS INDICATED PRACTICALLY NO MOISTURE IN THE SOILS, HOWEVER, THE UNSEASONABLY HIGH TEMPERATURES HAVE MELTED SOME OF THE SNOW. THIS COULD HAVE INCREASED THE SOIL MOISTURE IN SOME AREAS. MOST VALLEY AREAS ARE STILL REPORTING POOR TO FAIR SOIL MOISTURE CONDITIONS.

RESERVOIR STORAGE

STORAGE IN GRANBY IS SLIGHTLY BETTER THAN LAST YEAR AND GREEN MOUNTAIN RESERVOIR CONTAINS 65,000 A.F. COMPARED TO 71,400 A.F. LAST YEAR AND A 15-YR NORMAL OF 68,000 A.F.

STREAMFLOW

THE STREAMFLOW ON THE MAIN STEM OF THE COLORADO RANGES FROM 76% OF NORMAL AT GRANBY TO 57% OF NORMAL ON WILLOW CREEK. THE TRIBUTARY STREAMS AS A RULE ARE BEING FORECAST LESS THAN THE MAIN STEM. THE WATER SUPPLY OUTLOOK FOR THIS REGION IS NOT GOOD.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

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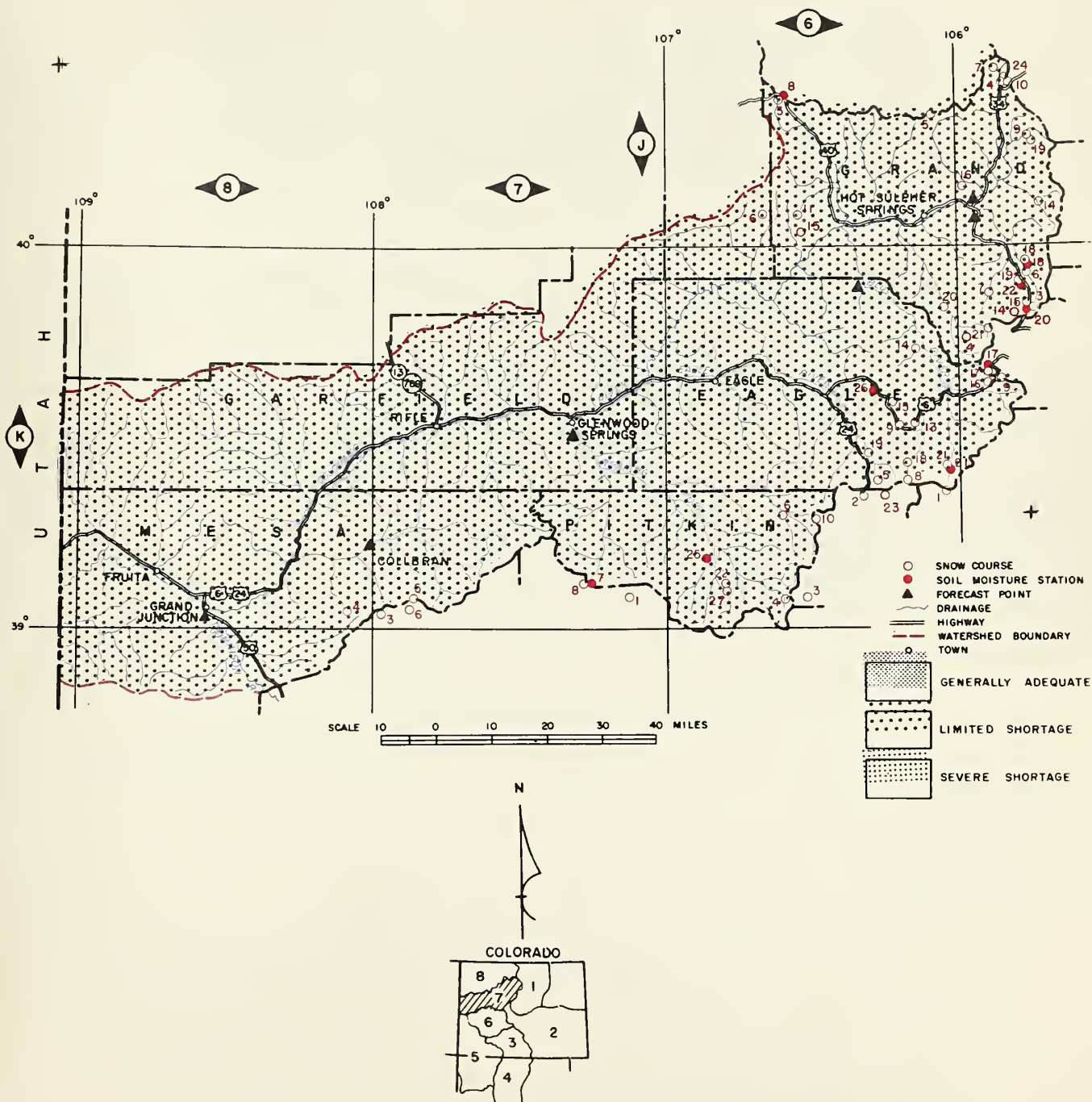
K. W. Chalmers, State Conservationist,
Colorado

E. A. Nicholson, Area Conservationist
Grand Junction, Colorado
M. H. Weaver, Area Conservationist,
Glenwood Springs, Colorado

SNOW

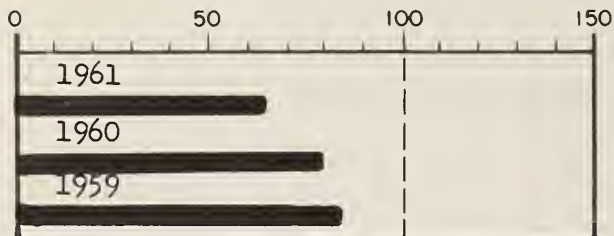
SNOW		CURRENT INFORMATION			PAST RECORD		
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
**							
COLORADO RIVER (UPPER)							
Phantom Valley	5J4	2/27	26	4.5	7.3	8.9	25
Hoosier Pass	6K1	2/27	36	7.0	11.1	10.0	23
Berthoud Pass	5K3	2/24	37	7.9	12.7	11.5	25
Tennessee Pass	6K2	2/28	28	4.8	9.1	7.9	25
M. Fork Camp Ground	5K4	2/24	28	5.4	7.0	8.0	24
Fiddlers Gulch	6K5	NS			15.0	13.6	23
Lulu	5J7	2/27	41	8.8	15.3	13.9	23
Willow Creek Pass	6J5	2/24	30	6.3	10.0	10.8	23
North Inlet Grand Lake	5J9	NS			5.5	8.0	21
Lake Irene	5J10	Est.	46	8.6	NS	18.6	22
Arrow	5K6	2/27	33	5.6	8.7	9.0	23
Lapland	5K7	2/28	29	4.2	5.9	10.3	21
Fremont Pass	6K8	2/24	34	7.4	14.2	13.2	25
Lynx Pass	6K6	2/24	27	5.5	8.0	10.6	25
Shrine Pass	6K9	2/24	35	7.7	14.8	14.0	19
Grizzly Peak	5K9	2/23	35	7.3	14.9	14.9	19
Glen Mar Ranch	6K20	2/24	25	4.6	6.2	7.2	14
Monarch Lake	5J14	2/26	29	5.8	9.0	11.0	13
Granby	5J16	2/24	13	2.8	4.9	6.2	12
Grand Lake	5J19	2/27	24	4.8	5.0	7.2	12
Berthoud Summit	5K14	2/28	46	10.7	16.1	16.1	10
Gore Pass	6J11	2/24	20	3.9	5.5	8.9	10
Frisco	6K13	2/24	15	2.7	4.3	7.6	10
Snake River	5K16	2/23	15	3.0	4.4	8.1	10
Summit Ranch	6K14	Est.	23	5.6	NS	7.7	5
Vail Pass	6K15	2/24	30	6.6	11.2	15.9	8
Pando	6K19	2/24	20	4.4	6.1	9.2	8
Kokomo	6K18	2/25	28	5.8	10.0	10.8	8
Milner Pass	5J24	NS			NS	-	8
Blue River	6K21	2/27	22	3.7	6.8	-	4
Jones Pass	5K21	2/24	37	6.8	11.8	-	4
Ranch Creek	5K18	2/27	25	4.6	5.4	-	4
Vasquez Creek	5K19	2/27	31	5.5	9.7	-	4
Cooper Hill	6K23	2/27	34	6.4	13.5	-	1
ROARING FORK RIVER							
Independence Pass Tunnel	6K4	2/26	34	6.8	13.1	14.3	24
North Lost Trail A	7K1	2/27	38	7.1	9.8	12.8	24
Nast	6K6	2/27	17	2.0	NS	6.0	22
Ivanhoe	6K10	2/28	38	5.9	10.6	15.6	14
McClure Pass A	7K8	2/27	32	8.6	14.1	15.3	11
Lift	7K27	2/23	50	10.6	10.2	-	3
Aspen	7K22	2/23	34	6.8	17.4	-	-
PLATEAU CREEK							
Mesa Lakes	7K4	2/25	32	7.1	14.9	13.2	24
Trickle Divide A	7K5	2/27	47	12.2	18.9	22.2	20
Alexander * A	7K3	2/27	30	7.2	16.9	17.6	23
Park Reservoir * A	7K6	2/27	36	9.9	18.1	20.9	20
*On adjacent drainage							
A - Air Observed							
** Courses with less than 15 years record in period 1943-57 have all years prior to 1957 averaged.							
NS No Survey							
This Report Prepared by							

COLORADO RIVER WATERSHED IN COLORADO

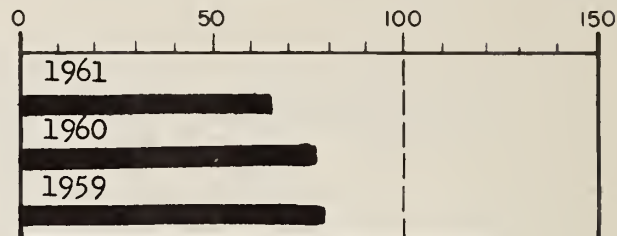


WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

UPPER COLORADO ABOVE GLENWOOD SPRINGS



LOWER COLORADO BELOW GLENWOOD SPRINGS



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVERAGE
				*
Granby **	465.5	247.5	231.2	213.3
Green Mt.	146.9	65.0	71.4	68.0

* 1943-57

** Less than 15 years

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	FALL*		WINTER	
	AVE.	DEP.	AVE.	DEP.
			Dec.-Jan.	
Upper Colorado	3.72	-1.24	1.45	-1.36
Lower Colorado	3.52	- .65	.94	-1.44

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE
				*
Muddy Pass	8.0	0.6	5.0	2.0
Gore	7.0	0.2	2.1	1.1
Berthoud Pass	8.0	5.4	1.0	2.6
Vasquez	7.0	5.4	-	4.4
Ranch Creek	7.0	3.9	5.7	4.2
Vail Pass	8.0	0.2	5.2	2.2
Blue River	7.0	1.3	4.4	2.7
Placita	8.0	0.1	2.4	1.5
Maroon	8.0	0.1	4.8	1.8

* All past data

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR	15 YEAR
		% AVERAGE	AVERAGE 1943-57
Blue R.abv. Green Mt. Dam	170	59	290
Colo. R. nr. Granby (4)	180	76	235
Colo. R. at Glenwood Spgs(5)	1100	71	1546
Roaring Fork at Gl. Spgs(6)	500	62	803
Plateau nr. Collbran	35	61	57
Williams Fk. nr Parshall	45	58	78
Willow nr Granby	25	57	44

(4) Observed flow plus diversions by Adams tunnel and Grand River ditch plus change in storage in Granby Reservoir.

(5) Observed flow plus the changes as indicated in (4) plus Moffat Ditch.

(6) Observed flow plus diversion through Twin Lakes tunnel.

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**WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
YAMPA, WHITE, & NORTH PLATTE
RIVERS WATERSHEDS IN COLORADO**

as of
MARCH 1, 1961

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SNOW COVER

SNOW PACK IN THIS AREA REMAINS DEFICIENT. SNOW FALL DURING THE MONTH OF FEBRUARY WAS BELOW NORMAL AS WAS THE PRIOR MONTH. NORTH PLATTE DRAINAGE HAS ABOUT 67% OF AVERAGE, YAMPA 63% AND THE WHITE A LITTLE BETTER WITH 68%. ONLY TWO MONTHS REMAIN OF THE USUAL SNOW SEASON. SNOW FALL WILL HAVE TO BE EXTREMELY HEAVY THE REMAINDER OF THE SEASON TO INSURE ADEQUATE WATER THIS SUMMER.

SOIL MOISTURE

SOIL MOISTURE READINGS WERE NOT TAKEN THIS MONTH, BUT IT IS ANTICIPATED THAT THE MOISTURE COULD BE BETTER THAN THAT INDICATED IN THE FALL. TEMPERATURES HAVE BEEN MUCH HIGHER THAN NORMAL. SOME OF THE LOW ELEVATION SNOW HAS MELTED. THIS WILL IMPROVE SOIL MOISTURE CONDITIONS. REPORTS FROM THIS AREA INDICATE THE VALLEY SOILS ARE STILL DRY.

STREAMFLOW

STREAMFLOW RANGES FROM 61% OF NORMAL ON THE LITTLE SNAKE TO 79% ON THE ELK RIVER. SHORTAGES WILL EXIST IN THE LOWER REACHES OF ALL THE STREAMS IN THIS AREA. THE WHITE RIVER AT MEEKER IS FORECAST AT 250,000 A.F. WHICH IS 75% OF THE 15-YR. AVERAGE.

AVERAGE WATER CONTENT IS COMPUTED ON 15-YEAR BASIS (1943-57). ALL YEARS OF RECORD ARE USED WHEN A SNOW COURSE HAS LESS THAN 15 YEARS OF RECORD.

THIS REPORT COMPILED IN COOPERATION WITH COLORADO EXPERIMENT STATION AND STATE ENGINEER OF COLORADO.

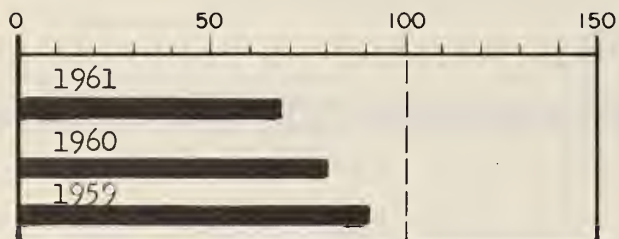
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K. W. Chalmers, State Conservationist,
Colorado

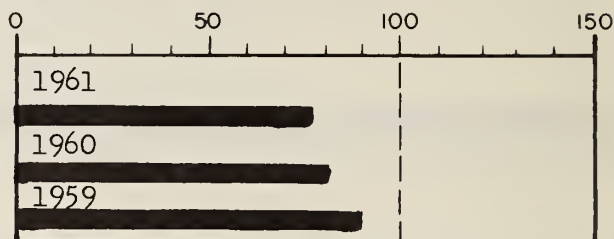
M. H. Weaver, Area Conservationist,
Glenwood Springs, Colorado

WATER SUPPLY OUTLOOK IN PERCENT OF 1943-57 AVERAGE

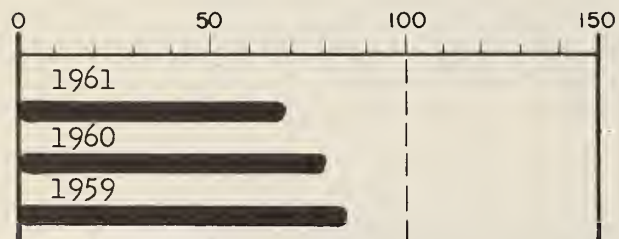
YAMPA



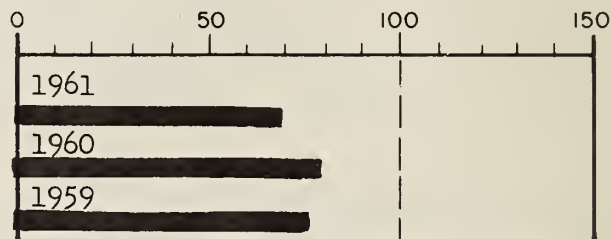
WHITE



LARAMIE



NORTH PLATE



SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE *
Muddy Pass	8.0	0.6	5.0	2.0
Willow Pass	7.0	1.1	7.0	3.4
Two Mile	8.0	0.5	5.0	3.0
Laramie Road	7.0	0.8	5.3	2.2
Hahn's Peak	8.0	5.9	-	
* All past years				

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 A.F.)

STREAM AND STATION	FORECAST	THIS YEAR % AVERAGE	15 YEAR AVERAGE 1943-57
Laramie at Jelm	65	58	113
Elk at Clark	170	79	215
Yampa at Steamboat Spgs.	205	69	283
White at Meeker	250	75	335
North Platte at Northgate	120	47	255
Little Snake at Lilly	215	61	350

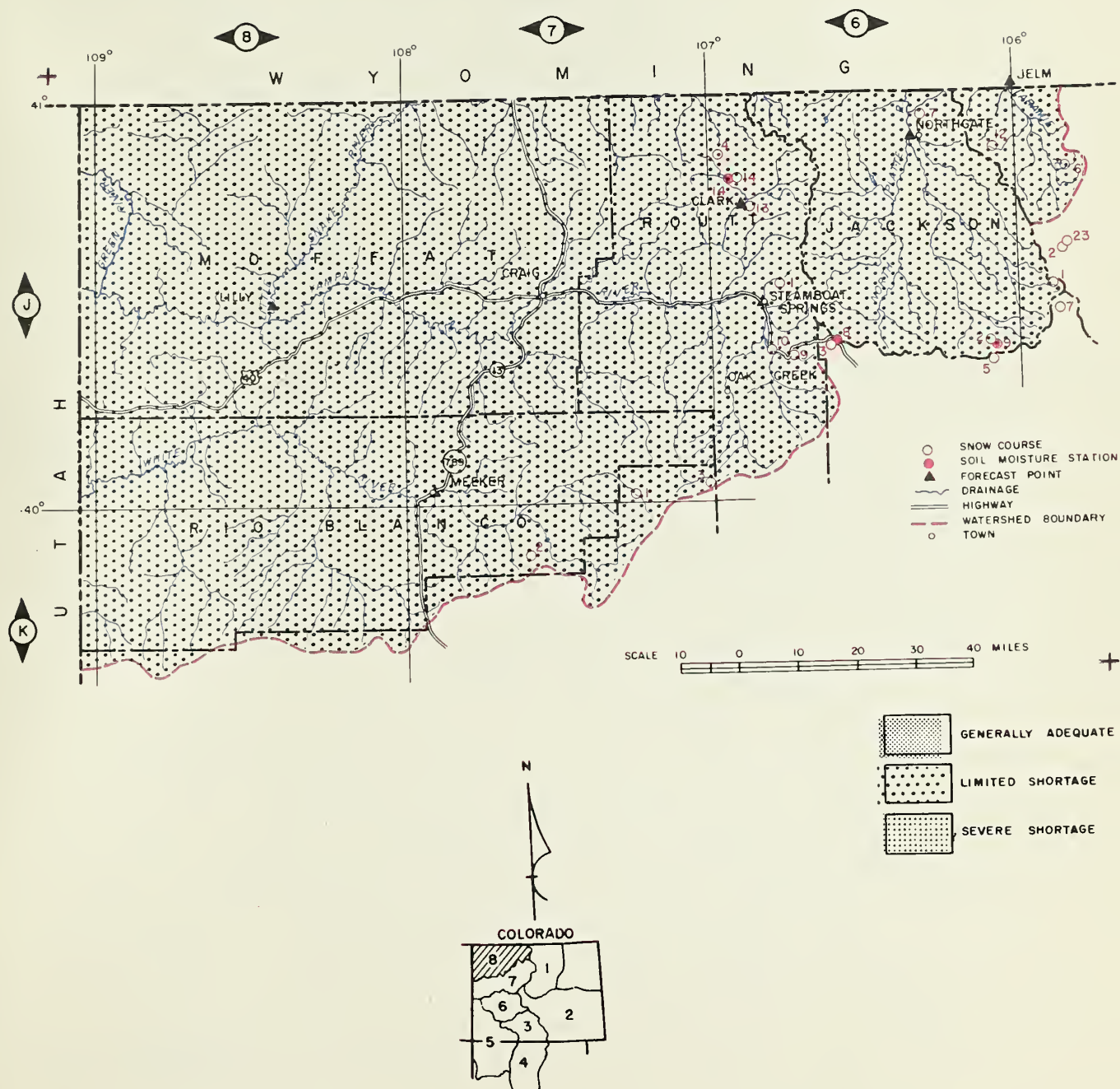
PRECIPITATION

STATION	FALL *		WINTER	
	AVE.	DEP.	AVE. Dec.-Jan.	DEP.
Yampa	5.12	-.48	1.65	-1.97
White	4.64	-1.76	.88	-1.56
North Platte	3.20	-.24		

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

* August through November

YAMPA, WHITE, & NORTH PLATTE RIVERS WATERSHEDS IN COLORADO



SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD		
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		YEARS OF RECORD
					LAST YEAR	AVERAGE	
NORTH PLATTE RIVER							
Cameron Pass (a)	5J1	2/27	63	14.8	18.0	18.0	24
Park View	6J2	2/27	24	4.6	7.5	7.7	25
Columbine Lodge	6J3	2/24	49	12.2	16.4	19.6	25
Deadman Hill * (a)	5J6	NS			14.0	12.2	24
Willow Creek Pass *	6J5	2/24	30	6.3	10.0	10.8	23
Roach * (a)	6J12	2/27	39	9.0	NS	15.7	19
Northgate	6J7	2/24	19	3.3	4.5	5.4	11
McIntyre *	5J15	NS			NS	9.8	11
YAMPA RIVER							
Dry Lake (a)	6J1	2/27	55	11.3	16.2	17.1	22
Columbine Lodge *	6J3	2/24	49	12.2	16.4	19.6	25
Elk River (a)	6J4	2/27	40	9.6	12.4	15.1	21
Lynx Pass *	6J6	2/24	27	5.5	8.0	10.6	25
Rabbit Ears	6J9	2/24	62	14.5	NS	22.0	7
Yampa View	6J10	2/24	37	8.3	11.1	13.6	9
Bear River	7J3	NS			NS	--	-
Clark (a)	6J13	2/27	31	6.2	7.6	12.8	5
Hahn's Peak	6J14	NS			-	--	-
WHITE RIVER							
Burro Mountain (a)	7K2	2/27	45	10.9	13.0	14.6	24
Rio Blanco	7J1	2/27	33	7.8	13.1	13.1	22

* On adjacent drainage
(a) Air observed
NS No survey

This Report Prepared by
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Ft. Collins, Colorado

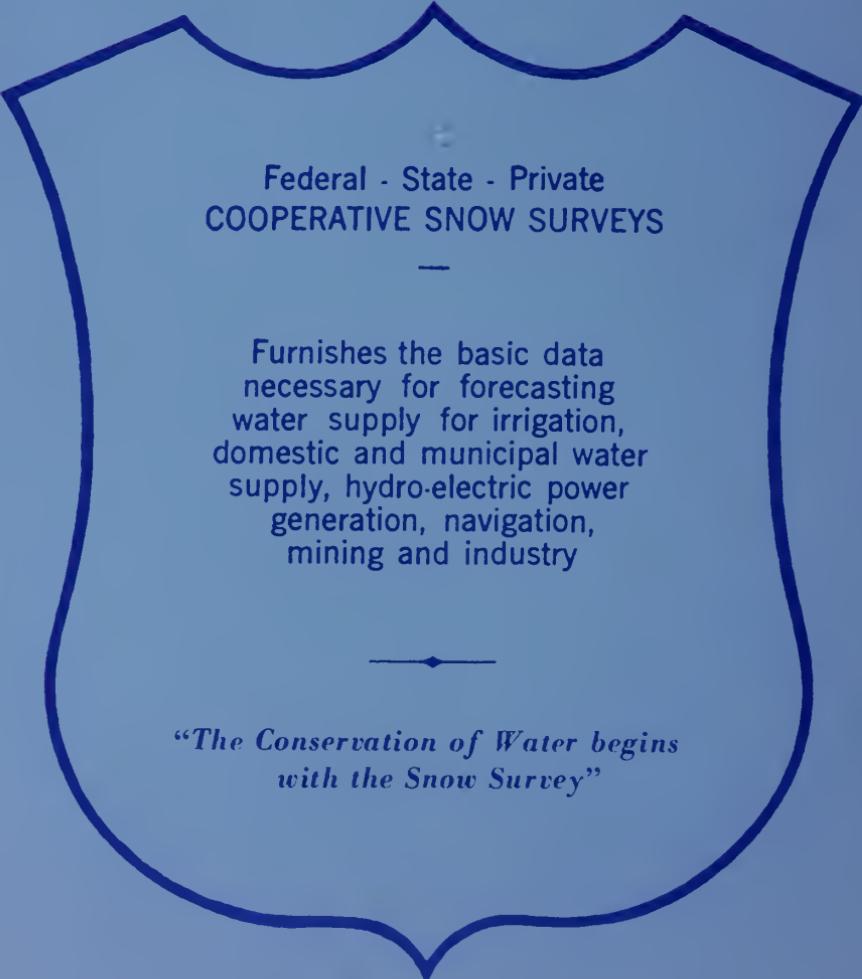
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OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF AGRICULTURE

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
240 SOUTH HALL
COLORADO STATE UNIVERSITY
FORT COLLINS, COLORADO

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U. S. DEPARTMENT OF AGRICULTURE

FIRST CLASS MAIL



Federal - State - Private
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*